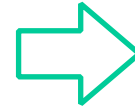


Collisional + Photo Ionization Plasma Emission Software (CPIPES)

M. A. de Aveliz



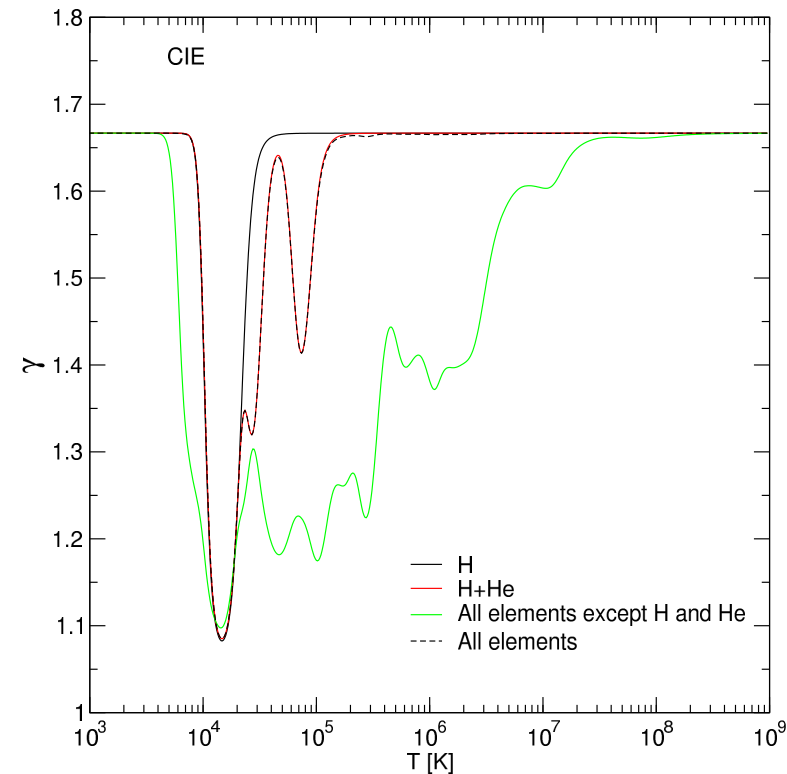
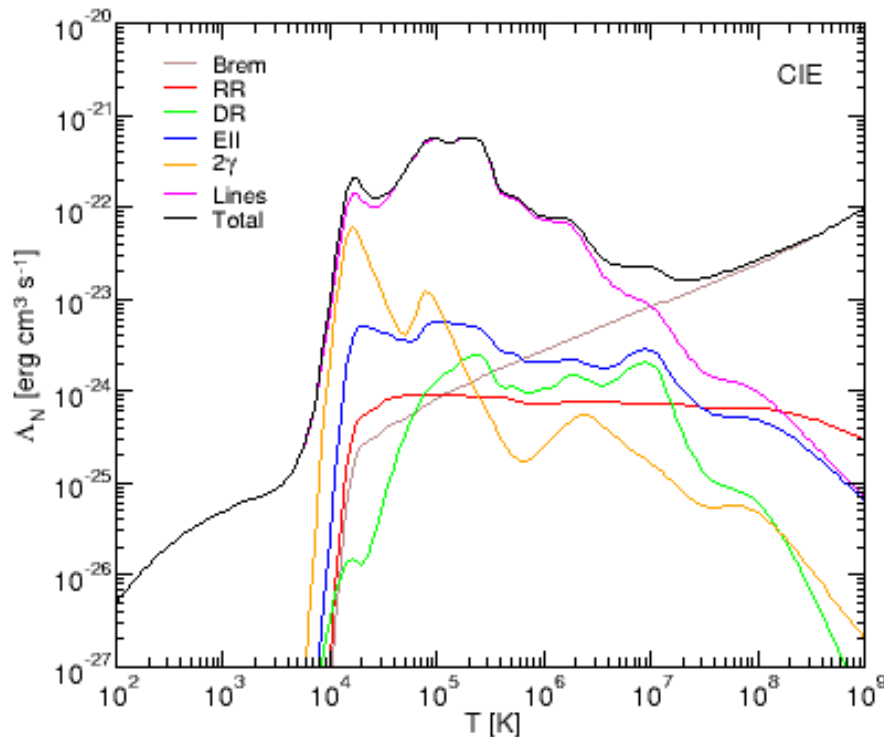
Variability of $\gamma = c_p/c_v$
de Aveliz+ 2018

Atomic and molecular plasma module

OpenCL + Fortran 2008 + OpenMP

Tailored for heterogenous computing
(CPUs + GPUs + Intel Xeon Phi X200)

Use in HD/MHD/CR-MHD AMR codes



Depends on the ionic and
excitation state of the plasma